

Safety Evaluation

Page 1 of 5

Safety Evaluation Number ¹ :	SE-W375-00-00005	Revision No:	0
ABCN Number: ABCN-W3	75-00-00005		
Safety Evaluation Subject: A	uthorization Basis Maintenance - Procee	d at Risk	

PART I: DESCRIPTION OF THE PROPOSED REVISION, BACKGROUND, AND SCHEDULE

1. Describe the proposed revision (including credible failure modes, if applicable).

Revises the Integrated Safety Management Plan (ISMP) to allow BNFL Inc. to implement facility changes (both design and programmatic changes) at BNFL'S risk pending both BNFL preparation and submittal of required safety documents – i.e., Safety Evaluation, Authorization Basis Change Notice (ABCN) and Authorization Basis Amendment Request (ABAR) – and Regulatory Unit approval of an ABAR. This "proceed-at-risk" approach will apply only during the design and construction phases. This change also incorporates modified language from RL/REG-97-13, Rev. 5, *Regulatory Unit Position on Contractor-Initiated Changes to the Authorization Basis*, section 3.2.

This proposed change will be part of a BNFL Inc. submittal to the RU that will include the following:

- a proposal that presents a new set of processes and procedures for the RPP-WTP Authorization Basis (AB) Maintenance Program
- suggested changes to RL/REG-97-13
- an ABAR as described herein.

This proposed change does not apply to changes to the approved Quality Assurance Program (QAP) or the approved Radiation Protection Program (RPP).

2. Identify the affected Authorization Basis (AB) documents and perform a comparison and assessment of the revision against the AB.

Revises ISMP section 3.3.3, "Changes to the Authorization Basis," to allow BNFL Inc. to proceed at risk with implementation of changes pending preparation of safety documentation (i.e., Safety Evaluation, ABCN and ABAR) and Regulatory Unit review and approval of ABARs (when required).

BNFL Inc. has already experienced situations in which project work has been held up because desirable, safe and effective standards or practices were inconsistent with current requirements described in the AB. It is likely that similar situations will occur in the future, potentially leading to serious cost and schedule consequences as a result of idling designers or construction work forces while safety documentation is being developed and while Regulatory Unit review is in progress.

BNFL Inc. believes that it will be advisable, on occasion, to "proceed at risk" with certain changes that require modifications to the Authorization Basis.

This revision differs from the current AB, which requires that safety evaluations be performed of all revisions to the AB and that prior approval of the Regulatory Official be obtained before implenting any change for which a safety evaluation determines that RU approval is needed.

- 3. List the references used for the safety evaluation.
 - BNFL-5193-ISP-01, Rev. 4b, November 9, 1999, *Integrated Saftey Management Plan*, BNFL Inc., Richland, Washington
 - BNFL-5193-SRD-01, Rev. 4e, November 2, 1999, Safety Requirements Document, BNFL Inc., Richland,

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¹ The Safety Evaluation Number shall be obtained from Project Document Control.

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Safety Evaluation

Page 2 of 5

Safety	/ Evaluation	n Number	1: <u>SE-W375</u>	5-00-00005		Revision No:0		
ABC	N Number:	ABCN-	W375-00-000	05				
Safety	y Evaluation	n Subject:	Authorization	on Basis Maintena	ance – Proceed a	t Risk		
	W	ashington						
	R	adiologica				Authorization Basis, Apration Contractors, U.S. De		
	"(Safety, He		onmental Program		od. No. A006, Part I, Sect adiological, Nuclear, and		
4.	Describ	e the plai	nned revision	implementation s	chedule.			
			approval: Apr ented by April					
PAI	RT II:	REGUI	LATORY IN	MPACT OF PRO	OPOSED AB R	REVISION		
				vered as part of that pplicable) require		on, to determine if the proval.	oposed AB 1	revision
			olve the delet	ion or modification	on of a standard	previously identified or	<u>YES</u>	<u>NO</u>
	JUSTIFICAT							
				n 3.3.3, which is a		standard cited in the and 9.2-5.		
	hazard ana assure that	lysis (PHA the proce	A), the PHA si ss hazard ana		nd revalidated b with the curren			
1		nnually t				gram (QAP) shall be cally excludes the		
	change invo evaluations Production the design a	olves an U are not r Operatio and consta	nreviewed Sa equired to eva ns Authorizat ection phases,		SQ). Per RL/REG change would res ed. This revision or to issuance of t	G-97-13, safety sult in a USQ until the applies specifically to the Production		
				es that the Autho its own risk, to m		maintained current. he design or		

administrative controls pending revision of the Authorization Basis. BNFL Inc.'s proposed AB Maintenance program ensures that the AB will be maintained current for such "at-risk" changes by requiring expedited processing of affected revisions through

 b_1

Safety Evaluation

Page 3 of 5

Safety Evaluation Number ¹ : SE-W375-00-00005	Revision No:0	
ABCN Number: <u>ABCN-W375-00-00005</u>		
Safety Evaluation Subject: <u>Authorization Basis Maintenance –</u>	Proceed at Risk	
issuance of Deficiency Reports (DRs) against such changes mechanism that ensures proper management focus on out	•	YES NO
SC 9.1-4 requires that the FSAR shall be reviewed annual ensure that the information is current, remains applicable implemented up to 3 months prior to the filing of the upda approval of any Unreviewed Safety Questions, and the ma regulator in support of that approval, shall be considered the information is incorporated into the FSAR as part of t FSAR is not approved by the RU until issuance of the Pro Authorization. As noted above, USQs are not required to of the Production Operations Authorization. This revision design and construction phases, which occur prior to issue Operations Authorization. Consequently, Safety Criterion revision.	e, and reflects all changes ated FSAR. The regulatory aterial submitted by to the an addendum to the FSAR until the next periodic update. The duction Operations be evaluated until after issance a specifically applies only to the ance of the Production a 9.1-4 is not affected by this	
SC 9.2-5 requires that all proposed revisions to technical s excluding its bases, shall be submitted for regulatory appropriate revision. Per Table S4-1 of the Contract, TSRs are not Operations. This revision spoecifically applies only to the which occur prior to Production Operations. Consequently affected by this revision.	roval prior to implementation of t final until start of Production design and construction phases,	
2. Does the revision result in a reduction in commitment curred JUSTIFICATION:	ently described in the AB?	
The current ISMP section 3.3.3 requires that a safety eval changes, whether or not they are required to be approved revision allows BNFL Inc., at its own risk, to make change including safety evaluations, is being prepared.	by the Regulatory Unit. This	
The current ISMP section 3.3.3 states: "Changes impacting require approval of the Regulatory Unit may be implement Regulatory Official of a request to amend the authorization promise by BNFL Inc., in writing and on the docket, to do implementation of certain changes until receipt of RU approval a decision (i.e., approval of the ISMP) that relates to with laws and regulations, or conformance with top-level approposes to allow BNFL Inc. to implement such changes a Regulatory Official. This is a reduction in a commitment in	nted following approval by the on basis." This statement is a something (i.e., defer proval) on which the RU has a adequate safety, compliance safety standards. This revision at risk prior to approval by the	

b_1

Safety Evaluation

Page 4 of 5

Safe	ty Evaluation	Number ¹	: SE-W375-00-00005		Revision No:0		
ABO	CN Number:	ABCN-V	V375-00-00005				
Safe	ety Evaluation	Subject:	Authorization Basis Mainten	ance – Proceed at	Risk		
3.	Does the rev		alt in a reduction in the effecti	veness of any prog	gram, procedure, or	YES	<u>NO</u> ⊠
	JUSTIFICATI						
	requires pri approval of risk with ce and constru permitted p WTP. The d Deficiency I preparation to review, so	or approventhose charaction charaction phase rior to the luration of Report (D), submittant that they	a 3.3.3) describes the process ral by the Regulatory Unit (Ringes that do require approvalges that require Regulatory best (prior to Cold Testing). The introduction of hazardous of the "at risk" period will be R) and expediting of Authorizal, review and approval. The lay may have current knowledglity with the AB.	U) and the process I. BNFL Inc.'s pro Unit approval app hus, such changes r radioactive mate minimized throug zation Basis Amen DRs will be availal	s of requesting RU oposal to proceed at olies only to the design would only be crial to the RPP- th the use of a adment Request ble for RU inspectors		
	minimized be the RU of cl perform an BNFL's pro	by expedit nanges that expedited posed cha	hat the duration for which a ling preparation of a safety event will proceed at risk. Similar review of ABARs that descringes to RL-REG-97-13 (being is for RU review.	aluation and subn rly, BNFL Inc. pro be changes being	nittal of an ABAR to oposes that the RU implemented at risk.		
	Cold Testing well in adva	g; thereform nce of pro- all change	Inc. proposes to close all open re, the AB will be fully aligne eduction operations. The Reg is that impact the AB in adva-	d with the as-desig ulatory Unit will h	gned, as-built facility have been fully		

Note: Guidance on defining the terms and responding to the above questions is provided in K70C528, Code of Practice for Managing Changes to the Authorization Basis, Appendix 6.

If all the answers to the above questions are no, then the change can be made without prior RU approval.

Given that the hazards evaluated in the AB cannot occur until after issuance of the Production Operations Authorization and that all open DRs related to "at-risk" change implementation will be closed before then, this revision does not constitute a reduction in

effectiveness of any program, procedure or plan described in the AB.

If any of the above answers is yes, then RU approval is required prior to implementation of the AB revision (and the initiating change if applicable). An ABAR shall be prepared to obtain RU approval (see K70C528, Appendix 7.)



Safety Evaluation

Page 5 of 5

Safety E	Evaluation	Number ¹	: SE-W375-00-00005	Revision No:0	
ABCN 1	Number:	ABCN-W	V375-00-00005		
Safety E	Evaluation	Subject:	Authorization Basis Maintenance – Proceed at	Risk	
PART	ſIII:	SAFETY	Y EVALUATION CONCLUSION		
			ns are answered No. Therefore, RU approval is n (and initiating change where applicable).	NOT required prior to implementing the	
p			I question is answered Yes. Therefore, RU appn (and initiating change where applicable). Issu		
Evalua	ntor/Origin	ator		Date	
Reviev	wer ²			Date	
Radiati	ion Safety	and Regu	ılatory Manager	Date	
Chair,	Project Sa	ifety Com	mittee ³	Date	
RPP-W	VTP Gener	ral Manag	er ³	Date	

The reviewer should be a person from the same department as the Evaluator/Originator and at least as qualified as the Evaluator/Originator to conduct safety evaluations.
 This signature required if Safety Evaluation concludes AB change can be made without RU prior approval. If RU approval (ABAR) is required, PSC and GM signatures occur on the ABAR.